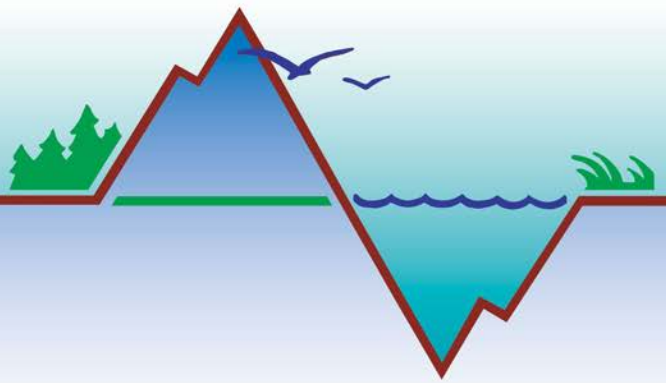


Kachemak Bay Research Reserve Phytoplankton Update

July 26th – August 1st 2019

Harmful Algal Bloom Program

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Hello Everyone,

Wild Shellfish Toxin Testing Preliminary Results

<u>Date</u>	<u>Shellfish Type</u>	<u>Location</u>	<u>Toxin Tested For</u>	<u>Toxin Testing Result</u>
7/18/19	Razor Clams	Katmai	Saxitoxins-PSP	Below regulatory limit.
7/22/19	Blue Mussels	Kasitsna Bay	Saxitoxins-PSP	Below regulatory limit.
7/26/19	Blue Mussels	China Poot Bay	Saxitoxins-PSP	Below regulatory limit.
7/29/19	Blue Mussels	Homer Harbor	Saxitoxins-PSP	Below regulatory limit.

The preliminary results from last week's wild shellfish toxin testing are in! All samples are below the regulatory limit for saxitoxins, the toxin that can cause paralytic shellfish poisoning (PSP). KBNERR is not a regulatory agency and harvesting wild shellfish in Alaska is considered 'dig at your own risk'. All commercially harvested shellfish are regulated by the DEC and considered safe for consumption.

The phytoplankton samples from the Inner Bay are sparse this week marking the end of the *Pseudo-nitzschia* bloom that we first observed on July 9 in Halibut Cove and Peterson Bay. The Outer Bay in contrast, continues to have elevated levels of *Pseudo-nitzschia* reaching bloom levels in Jakolof Bay. Please reach out if you have any questions.

Thanks to all of our monitors and partners for the phytoplankton samples!
Rosie Masui & Jasmine Maurer

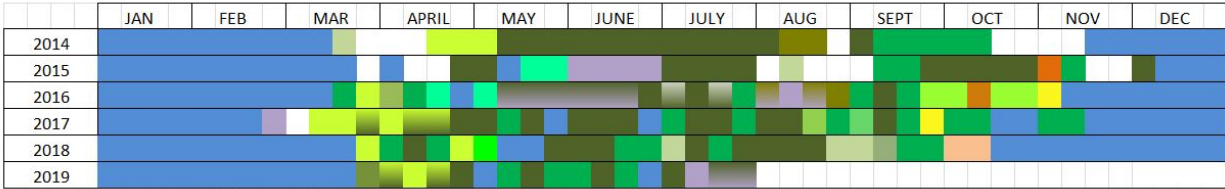
Kachemak Bay Research Reserve Phytoplankton Update Qualitative Analysis Phytoplankton Data

INNER BAY

DATE	Bay	Water Temp	Salinity	Dominant species	Dinophysis	Pseudo-nitzschia	Alexandrium
7/25/2019*	China Poot	12	30	<i>Pseudo-nitzschia</i>	Present	Present	Present
7/28/2019	Halibut Cove	14		Sparse Sample	Present	None	None
7/29/2019	Bear Cove	13	20	Sparse Sample	Present	Present	Present

Outer Kachemak Bay 2014 - 2019

Sadie, Tutka, Jakolof, Eldred Pass, Kasitsna, Seldovia, Pt. Graham



Dinoflagellates

- dinoflagellate mix
- Ceratium furca*
- Karenia mikimotoi*
- Alexandrium*
- Ceratium longipes*
- Diatom/Dinoflagellate Mix
- low levels of phytoplankton
- no data

Diatoms

- Chaetoceros*
- Cerataulina*
- Coscinodiscus*
- Lauderia*
- Leptocylindrus*
- Pseudo-nitzschia*
- Rhizosolenia*
- Skeletonema*
- Stephanopyxis*
- Thalassionema*
- Thalassiosira*
- Diverse diatoms
- Chaetoceros/Thalassiosira* equally dominant
- Chaetoceros/Lauderia* equally dominant
- Chaetoceros/Leptocylindrus* equally dominant
- Leptocylindrus/Pseudo-nitzschia/Rhizosolenia* equally dominant
- Chaetoceros/Pseudo-nitzschia* equally dominant
- Rhizosolenia/Pseudo-nitzschia* equally dominant
- Cerataulina/Pseudo-nitzschia* equally dominant
- Thalassiosira/Pseudo-nitzschia* equally dominant
- Leptocylindrus/Pseudo-nitzschia* equally dominant
- Ditylum*
- Corethron*



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